

RECEIVED Page 1 of 35

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	02 MAY - 7 PM 3:34
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
M M	AA1	4,722,840	02/02/1988	Valenzuela, P.D.T. et al.	424	88	09/19/1985
	AB1	5,071,651	12/10/1991	Sabara, M.I. et al.	424	89	03/05/1990
	AC1	5,334,394	08/02/1994	Kossovsky, N. et al.	424	494	01/04/1993
	AD1	5,374,426	12/20/1994	Sabara, M.I. et al.	530	403	10/30/1989
	AE1	5,698,424	12/16/1997	Mastico, R.A. et al.	435	172.3	06/26/1992
	AF1	5,739,026	04/14/1998	Garoff, H. et al.	435	240.2	12/12/1991
	AG1	5,770,380	06/23/1998	Hamilton, A.D. et al.	435	7.1	09/19/1996
	AH1	5,766,602	06/16/1998	Xiong, C. et al.	424	218.1	01/19/1995
	AI1	5,789,245	08/04/1998	Dubensky, Jr., et al.	435	320.1	10/30/1996
	AJ1	5,792,462	08/11/1998	Johnston, R.E. et al.	424	199.1	05/23/1995
	AK1	5,814,482	09/29/1998	Dubensky, Jr. et al	435	69.3	10/30/1996

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
M M	AL1	EP 0 259 149 A2	03/09/1988	Europe			Yes No
	AM1	EP 0 283 505 B1	09/28/1988	Europe			Yes No
	AN1	EP 0 425 082 A1	05/02/1991	Europe			Yes No
	AO1	EP 0 465 081 B1	01/08/1992	Europe			Yes No
	AP1	WO 92/11291 A1	07/09/1992	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	1	Artelt, P. et al., "Vectors for efficient expression in mammalian fibroblastoid, myeloid and lymphoid cells via transfection or infection," <i>Gene</i> 68:213-219, Elsevier Science Publishers B.V. (1988)
	AS	1	Baba, T.W. et al., "Pathogenicity of Live, Attenuated SIV After Mucosal Infection of Neonatal Macaques," <i>Science</i> 267:1820-1825, American Association for the Advancement of Science (1995)
	AT	1	Bachmann, M.F. et al., "Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8 <sup>+</sup> cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 26:2595-2600, VCH Verlagsgesellschaft mbH (1996)

EXAMINER

*Wade*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>			ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616		
			APPLICANT Sebbel et al.			
			FILING DATE 05/04/2001	GROUP 1645		

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MM	AA2	5,871,747	02/16/1999	Gengoux-Sedlik, C. et al.	424	208.1	09/13/1993
	AB2	5,928,647	07/27/1999	Rock, K.	424	196.11	01/10/1994
	AC2	6,004,763	12/21/1999	Gengoux, C. et al.	435	7.24	05/12/1998
	AD2	6,054,312	04/25/2000	Larocca, D. et al.	435	320.1	08/29/1997
	AE2	6,231,864	05/15/2001	Birkett, A.J.	424	189.1	02/11/1999
	AF2						
	AG2						
	AH2						
	AI2						
	AJ2						
	AK2						

TECH CENTER 1600

RECEIVED

MAY 09 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM	AL2	WO 94/06472 A1	03/31/1994	WIPO			Yes X No
	AM2	EP 0 578 293 A1	01/12/1994	Europe			Yes No
	AN2	WO 94/15585 A1	07/21/1994	WIPO			Yes No
	AO2	WO 96/05293 A1	02/22/1996	WIPO			Yes No
	AP2	WO 96/30523 A2	10/03/1996	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	2	Bachmann, M.F. and Zinkernagel R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
	AS	2	Bachmann, M.F. and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
	AT	2	Bard, F. et al., "Peripherally administered antibodies against amyloid $\beta$ -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature America, Inc. (August 2000)

EXAMINER	<i>Mosley</i>	DATE CONSIDERED	<i>10-30-03</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600/2900  
MAY 19 2004

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM	AL3	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AM3	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AN3	WO 99/07839 A2	02/18/1999	WIPO			Yes No
	AO3	WO 99/40934 A1	08/19/1999	WIPO			Yes No
↓	AP3	WO 99/50432 A1	10/07/1999	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	3	Boorsma, M. et al., "A temperature-regulated replicon-based DNA expression system," <i>Nat. Biotechnol.</i> 18:429-432, Nature America, Inc. (April 2000)
	AS	3	Borisova, G. et al., "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," <i>J. Virol.</i> 67:3696-3701, American Society for Microbiology/DC (1993)
↓	AT	3	Bullitt E. et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," <i>Proc. Natl. Acad. Sci USA</i> 93:12890-12895, National Academy Press (1996)

EXAMINER

Mohy

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600/PAT  
MAY 09 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
M M	AL4	WO 99/67293 A1	12/29/1999	WIPO			Yes No
↓	AM4	WO 00/32227 A2	06/08/2000	WIPO			Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	4	Bullitt, E. and Makowski, L., "Bacterial Adhesion Pili Are Heterologous Assemblies of Similar Subunits," <i>Biophys. J.</i> 74:623-632, Biophysical Society (1998)
↓	AS	4	Cesareni, G., "Peptide display on filamentous phage capsids," <i>FEBS Lett.</i> 307:66-70, Elsevier Science Publishers B.V. (1992)
↓	AT	4	Clark, H.F. et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSV) and a Virus-Free Cell Line (VH2) From <i>Vipera russelli</i> ," <i>J. Natl. Cancer Inst.</i> 51:645-657, Oxford University Press (1973)

EXAMINER

*Wolff*

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848, 616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	5	Cohen, C. and Parry, D.A.D., "α-Helical coiled coils - a widespread motif in proteins," <i>Trends Biochem. Sci.</i> 11:245-248, Elsevier Science Publishers B.V. (1986)
	AS	5	Connor, R.I. et al., "Immunological and Virological Analyses of Persons Infected by Human Immunodeficiency Virus Type 1 while Participating in Trials of Recombinant gp120 Subunit Vaccines," <i>J. Virol.</i> 72:1552-1576, American Society for Microbiology/DC (1998)
↓	AT	5	Crameri, R. and Suter M., "Display of biologically active proteins on the surface of filamentous phages: a cDNA cloning system for selection of functional gene products linked to the genetic information responsible for their production," <i>Gene</i> 137:69-75, Elsevier Science Publishers B.V. (1993)

EXAMINER

moler

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1600/2000  
FEB 06 2002  
RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	6	Daniel, M.D. et al., "Protective Effects of a Live Attenuated SIV Vaccine with a Deletion in the nef Gene," <i>Science</i> 258:1938-1941, American Association for the Advancement of Science (1992)
↓	AS	6	Davis, N.L. et al., "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," <i>Virology</i> 171:189-204, Academic Press, Inc. (1989)
↓	AT	6	de la Cruz, V.F. et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," <i>J. Biol. Chem.</i> 263:4318-4322, American Society for Biochemistry and Molecular Biology (1988)

EXAMINER

*Mosley*

DATE CONSIDERED

*16-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600/2000  
MAY 09 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	7	Dodson, K.W. et al., "Outer-membrane PapC molecular usher discriminately recognizes periplasmic chaperone-pilus subunit complexes," Proc. Natl. Acad. Sci. USA 90:3670-3674, National Academy Press (1993)
	AS	7	Donnelly, J.J. et al., "DNA Vaccines," Annu. Rev. Immunol. 15:617-648, Annual Reviews, Inc. (1997)
↓	AT	7	Ebina, S. et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR Conformational Analysis," J. Biol. Chem. 264:7882-7888, American Society for Biochemistry and Molecular Biology, Inc. (1989)

EXAMINER

*Wadey*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1600  
 MAY 6 2002  
 2000  
 RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	8	Eshdat, Y. et al., "Dissociation and Reassembly of <i>Escherichia coli</i> Type 1 Pili," <i>J. Bacteriol.</i> 148:308-314, American Society for Microbiology/DC (1981)
	AS	8	Esposito, G. et al., "Conformational study of a short Pertussis toxin T cell epitope incorporated in a multiple antigen peptide template by CD and two-dimensional NMR. Analysis of the structural effects on the activity of synthetic immunogens," <i>Eur. J. Biochem.</i> 217:171-187, Blackwell Science, Ltd. (1993)
↓	AT	8	Fehr, T. et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J. Exp. Med.</i> 185:1785-1792, Rockefeller University Press (1997)

EXAMINER

*Mosley*

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600  
MAY 10 2002  
DOC 16002800

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	9	Förster, E. et al., "Natural and recombinant enzymatically active or inactive bee venom phospholipase A <sub>2</sub> has the same potency to release histamine from basophils in patients with Hymenoptera allergy," J. Allergy Clin. Immunol. 95:1229-1235, Mosby (1995)
	AS	9	Frolov, I. et al., "Alphavirus-based expression vectors: Strategies and applications," Proc. Natl. Acad. Sci. USA 93:11371-11377, National Academy Press (1996)
↓	AT	9	Fujiwara K. et al., "Novel Preparation Method of Immunogen for Hydrophobic Hapten, Enzyme Immunoassay for Daunomycin and Adriamycin," J. Immunol. Methods 45:195-203, Elsevier/North-Holland Biomedical Press (1981)

EXAMINER

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1600  
 MAY 19 2002  
 RECEIVED

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

MM	AR	10	Gilbert, S.C. et al., "A protein particle vaccine containing multiple malaria epitopes," <i>Nat. Biotechnol.</i> 15:1280-1284, Nature America, Inc. (1997)
↓	AS	10	Greenstone, H.L. et al., "Chimeric papillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," <i>Proc Natl. Acad. Sci. USA</i> 95:1800-1805, National Academy Press (1998)
↓	AT	10	Hahn, C.S. et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," <i>Proc. Natl. Acad. Sci. USA</i> 89:2679-2683, National Academy Press (1992)

EXAMINER

*Mohr*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600  
MAY 15 2002  
2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	<u>11</u>	Harding, C.V. and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933, American Association of Immunologists (1994)
	AS	<u>11</u>	Haslam, D.B. et al., "The amino-terminal domain of the P-pilus adhesion determines receptor specificity," <i>Mol. Microbiol.</i> 14:399-409, Blackwell Scientific Publications (1994)
	AT	<u>11</u>	Hilleman, M.R., "Six decades of vaccine development-a personal history," <i>Nat. Med.</i> 4:507-514, Nature America, Inc. (1998)

EXAMINER		DATE CONSIDERED
	<i>Woddy</i>	<i>10-30-03</i>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	FILING DATE 05/04/2001
		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CEN ENT INVENTION  
RECEIVED  
MAY 10 2001  
USPTORECEIVED  
MAY 10 2001  
USPTO

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M	AR	12	Hui, E.K-W. et al., "Hepatitis B viral core proteins with an N-terminal extension can assemble into core-like particles but cannot be enveloped," J. Gen. Virol. 80:2647-2659, Society for General Microbiology (October 1999)
↓	AS	12	Hultgren, S.J. et al., "The PapG adhesion of uropathogenic Escherichia coli contains separate regions of receptor binding and for the incorporation into the pilus," Proc. Natl. Acad. Sci. USA 86:4357-4361 (1989)
↓	AT	12	Hung, D.L. and Hultgren, S.J., "Pilus Biogenesis via the Chaperone/Usher Pathway: An Integration of Structure and Function," J. Struct. Biol. 124:201-220, Academic Press, Ltd. (1998)

EXAMINER

Moday

DATE CONSIDERED 10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1600-2000  
MAK 06/06/2002

RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	13	Iannolo G. et al., "Modifying Filamentous Phage Capsid: Limits in the Size of the Major Capsid Protein," <i>J. Mol. Biol.</i> 248:835-844, Academic Press, Ltd. (1995)
	AS	13	Iannolo, G. et al., Construction, Exploitation and Evolution of a New Peptide Library Displayed at High Density by Fusion to the Major Coat Protein of Filamentous Phage," <i>Biol. Chem.</i> 378:517-521, Walter de Gruyter & Co. (1997)
↓	AT	13	Ikram, H. and Prince, A.M., "A method for coupling the hepatitis B surface antigen to aldehyde-fixed erythrocytes for use in passive hemmagglutination," <i>J. Virol. Methods</i> 2:269-275, Elsevier/North-Holland Biomedical Press (1981)

EXAMINER

Moden

DATE CONSIDERED 10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1900

MAY 09 2002

RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MM</i>	AR	<u>14</u>	Jiang, X. et al., "Norwalk Virus Genome Cloning and Characterization," <i>Science</i> 250:1580-1583, American Association for the Advancement of Science (1990)
<i>↓</i>	AS	<u>14</u>	Kilby, J.M. et al., "Potent suppression of HIV-1 replication in humans by T-20, a peptide inhibitor of gp41-mediated virus entry," <i>Nat. Med.</i> 4:1302-1307, Nature America, Inc. (1998)
<i>↓</i>	AT	<u>14</u>	Klemm, P. and Christiansen, G., "Three fim genes required for the regulation of length and mediation of adhesion of <i>Escherichia coli</i> type 1 fimbriae," <i>Mol. Gen. Genet.</i> 208:439-445, Springer-Verlag (1987)

EXAMINER	<i>Wadey</i>	DATE CONSIDERED	<i>10-30-03</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1600/2900

WHT JUN 2001

RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M/M	AR	<u>15</u>	Klemm, P. and Christiansen, G., "The fimD gene required for cell surface localization of <i>Escherichia coli</i> type 1 fimbriae," <i>Mol. Genet. 220</i> :334-338, Springer-Verlag (1990)
	AS	<u>15</u>	Kovacsics-Bankowski, M. et al., "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophages," <i>Proc. Natl. Acad. Sci. USA 90</i> :4942-4946, National Academy Press (1993)
↓	AT	<u>15</u>	Kratz, P.A. et al., "Native display of complete foreign protein domains on the surface of hepatitis B virus capsids," <i>Proc. Natl. Acad. Sci. USA 96</i> :1915-1920, <i>Proc. Natl. Acad. Sci. USA 96</i> :1915-1920, (March 1999)

EXAMINER

*Mullen*

DATE CONSIDERED

*0-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
MAY 09 2002  
TECH CENTER 6000/2000  
USPTO

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>16</u>	Kuehn, M.J. et al., "Structural Basis of Pilus Subunit Recognition by the PapD Chaperone," <i>Science</i> 262:1234-1241, American Association for the Advancement of Science (1993)
↓	AS	<u>16</u>	Landschulz, W.H. et al., "The Leucine Zipper: A Hypothetical Structure Common to a New Class of DNA Binding Proteins," <i>Science</i> 240:1759-1764, American Association for the Advancement of Science (1988)
↓	AT	<u>16</u>	Leake, C.J. et al., "Cytopathic Effect and Plaque Formation by Arboviruses in a Continuous Cell Line (XTC-2) from the Toad <i>Xenopus laevis</i> ," <i>J. Gen. Virol.</i> 35:335-339, Cambridge University Press (1977)

EXAMINER

*Mosley*

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600/2900  
MAY 6 2012

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	17	Lee, K. et al. "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," <i>Biotechnol. Bioeng.</i> 50:336-340, John Wiley & Sons, Inc. (1996)
	AS	17	Liljeström, P. and Garoff, H., "A New Generation of Animal Cell Expression Vectors Based on the Semliki Forest Virus Replicon," <i>Biotechnology (N Y)</i> 9:1356-1361, Nature Publishing Company (1991)
↓	AT	17	Liljeström, P., "Alphavirus expression systems," <i>Curr. Opin. Biotechnol.</i> 5:495-500, Current Biology, Ltd. (1994)

EXAMINER

*Wadey*DATE CONSIDERED *10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CITE EF 16002900  
 MA J 9 2002  
**RECEIVED**

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MM</i>	AR	<u>18</u>	Lindberg, F. et al., "PapD, a Periplasmic Transport Protein in P-Pilus Biogenesis," <i>J. Bacteriol.</i> 171:6052-6058, American Society for Microbiology/DC (1989)
<i>↓</i>	AS	<u>18</u>	Lo, K.K-W. et al., "Surface-modified mutants of cytochrome p450 <sub>cam</sub> : enzymatic properties and electrochemistry," <i>FEBS Lett.</i> 451:342-346, Elsevier Science Publishers B.V. (May 1999)
<i>✓</i>	AT	<u>18</u>	Lo-Man, R. et al., "A recombinant virus-like particle system derived from parvovirus as an efficient antigen carrier to elicit a polarized Th1 immune response without adjuvant," <i>Eur. J. Immunol.</i> 28:1401-1407, WILEY-VCH Verlag GmbH (1998)

EXAMINER

*Moller*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1600/2900

MAY 6 2002

RECEIVED

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

M M	AR	19	López, O. et al., "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318, Elsevier Science Publishers B.V.(1998)
	AS	19	Lundstrom, K., "Alphaviruses as expression vectors," <i>Curr. Opin. Biotechnol.</i> 8:578-582, Current Biology, Ltd. (1997)
↓	AT	19	Matsui, S.M. et al., "The Isolation and Characterization of a Norwalk Virus-specific cDNA," <i>J. Clin. Invest.</i> 87:1456-1461, Rockefeller University Press (1991)

EXAMINER

moter

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
EPO CENTER 16/05/2002  
MAY 16 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	20	McPherson, P.S., "Regulatory Role of SH3 Domain-mediated Protein-Protein Interactions in Synaptic Vesicle Endocytosis," <i>Cell. Signal.</i> 11:229-238. Elsevier Science, Inc. (April 1999)
	AS	20	McReynolds, L. et al., "Sequence of chicken ovalbumin mRNA," <i>Nature</i> 273:723-728, Macmillan Magazines, Ltd. (1978)
↓	AT	20	Minenkova, O.O. et al., "Design of specific immunogens using filamentous phage as the carrier," <i>Gene</i> 128:85-88, Elsevier Science Publishers B.V. (1993)

EXAMINER

*Mosley*

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 1600/2000  
MAY 14 2001  
RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	<u>21</u>	Morein, B. et al., "Iscom, a novel structure for antigenic presentation of membrane proteins from enveloped viruses," <i>Nature</i> 308:457-460, Macmillan Magazines, Ltd. (1984)
	AS	<u>21</u>	Neurath, A.R. et al., "Hepatitis B virus surface antigen (HbsAG) as carrier for synthetic peptides having an attached hydrophobic tail," <i>Mol. Immunol.</i> 26:53-62, Pergamon Press (1989)
↓	AT	<u>21</u>	O'Shea, E.K. et al., "Evidence That the Leucine Zipper Is a Coiled Coil," <i>Science</i> 243:538-542, American Association for the Advancement of Science (1989)

EXAMINER

Mader

DATE CONSIDERED 10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1690/2000  
MAY 09 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	22	O'Shea, E.K. et al., "Mechanism of Specificity in the Fos-Jun Oncoprotein Heterodimer," Cell 68:699-708, Cell Press (1992)
↓	AS	22	Perham, R.N. et al., "Engineering a peptide epitope display system on filamentous bacteriophage," FEMS Microbiol. Rev. 17:25-31, Elsevier Science Publishers B.V. (1995)
↓	AT	22	Petrenko, V.A. et al., "A library of organic landscapes on filamentous phage," Protein Eng. 9:797-801, Oxford University Press (1996)

EXAMINER *Mohr* DATE CONSIDERED *10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**TECH CENTER 1600**  
**MAY 09 2002**  
**RECEIVED**

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MW</i>	AR	<u>23</u>	Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development," <i>FEBS Lett.</i> 442:1-6, Elsevier Science Publishers B.V. (January 1999)
	AS	<u>23</u>	Quash, G. et al., "The preparation of latex particles with covalently bound polyamines, IgG and measles agglutinins and their use in visual agglutination tests," <i>J. Immunol. Methods</i> 22:165-174, Elsevier/North-Holland Biomedical Press (1978)
	AT	<u>23</u>	Raychaudhuri, S. and Rock, K.L., "Fully mobilizing host defense: Building better vaccines," <i>Nat. Biotechnol.</i> 16:1025-1031, Nature America, Inc. (1998)

EXAMINER

*Mosher*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600  
MAY 09 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>24</u>	Redfield, R.R. et al., "Disseminated Vaccinia in a Military Recruit with Human Immunodeficiency Virus (HIV) Disease," <i>N. Engl. J. Med.</i> 316:673-676, New England Journal of Medicine (1987)
	AS	<u>24</u>	Renner, W.A. et al., "Recombinant Cyclin E Expression Activates Proliferation and Obviates Surface Attachment of Chinese Hamster Ovary (CHO) Cells in Protein-Free Medium," <i>Biotechnol. Bioeng.</i> 4:476-482, John Wiley & Sons, Inc. (1995)
	AT	<u>24</u>	Romagnani, S., "The Th1/Th2 paradigm," <i>Immunol. Today</i> 18:263-266, Elsevier Science, Ltd. (1997)

EXAMINER

*Mosley*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						RECEIVED JUN 12 2002
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	25	Rudolf, M.P. et al., "Molecular Basis for Nonanaphylactogenicity of a Monoclonal Anti-IgE Antibody," <i>J. Immunol.</i> 165:813-819, American Association of Immunologists (July 2000)
↓	AS	25	Schelsinger, S., "Alphaviruses - vectors for the expression of heterologous genes," <i>Trends Biotechnol.</i> 11:18-22, Elsevier Science Publishers, Ltd. (1993)
↓	AT	25	Schenk, D. et al., "Immunization with amyloid-β attenuates Alzheimer-disease-like pathology in the PDAPP mouse," <i>Nature</i> 400:173-177, Macmillan Magazines, Ltd. (July 1999)

EXAMINER <i>Mohler</i>	DATE CONSIDERED <i>10-30-03</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001		GROUP 1645	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
TECH CENTER 1600/900  
MAY 09 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>26</u>	Sedlik, C. et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells," Proc. Natl. Acad. Sci. USA 94:7503-7508, National Academy Press (1997)
	AS	<u>26</u>	Shen, L. et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8 <sup>+</sup> Cytotoxic T Lymphocytes," Science 252:440-443, American Association for the Advancement of Science (1991)
	AT	<u>26</u>	Soto, G.E. et al., "Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus," EMBO J. 17:6155-6167, Oxford University Press (1998)

EXAMINER

*Mosher*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
 FEB 24 2001  
 U.S. PATENT AND TRADEMARK OFFICE  
 1645

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	27	Soto, G.E. and Hultgren, S.J., "Bacterial Adhesions: Common Themes and Variations in Architecture and Assembly," <i>J. Bacteriol.</i> 181:1059-1071, American Society for Microbiology/DC (February 1999)
↓	AS	27	Stollar, V., "Togaviruses in Cultured Arthropod Cells," in <i>The Togaviruses: Biology, Structure, Replication</i> , Schlesinger, R.W. ed., Academic Press, Inc., New York, NY, pp.612-615 (1980)
↓	AT	27	Strauss, J.H. and Strauss, E.G., "The Alphaviruses: Gene Expression, Replication, and Evolution," <i>Microbiol. Rev.</i> 58:491-562, American Society for Microbiology/DC (1994)

EXAMINER

*Mosher*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848, 616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECHNICAL 1000  
 1A1  
 C 9 2002  
 RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	28	Tanimori, H. et al., "Enzyme Immunoassay of Neocarzinostatin Using $\beta$ -Galactosidase as Label," J. Pharm. Dyn. 4:812-819, Pharmaceutical Society of Japan (1981)
	AS	28	Tewari, R. et al., "Neutrophil Activation by Nascent FimH Subunits of Type 1 Fimbriae Purified from the Periplasm of <i>Escherichia coli</i> ," J. Biol. Chem. 268:3009-3015, American Society for Biochemistry and Molecular Biology, Inc. (1993)
↓	AT	28	Topchieva, I. and Karezin, K., "Self-Assembled Supramolecular Micellar Structures Based on Non-ionic Surfactants and Cyclodextrins," J. Colloid Interface Sci. 213:29-35, Academic Press, Inc. (May 1999)

EXAMINER

*Molley*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 6002000

RECEIVED

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

MM	AR	29	Townsend, A. and Bodmer, H., "Antigen Recognition by Class I-Restricted T Lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews, Inc. (1989)
↓	AS	29	Twomey, T. et al., "Structure and immunogenicity of experimental foot-and-mouth disease and poliomyelitis vaccines," <i>Vaccine</i> 13:1603-1610, Elsevier Science, Ltd. (1995)
↓	AT	29	Ulrich, R. et al., "Core Particles of Hepatitis B Virus as Carrier for Foreign Epitopes," <i>Adv. Virus Res.</i> 50:141-182, Academic Press, Inc. (1998)

EXAMINER

Moley

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER 600/290  
RECEIVED  
MAY 09 2002  
2002  
RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	30	VanCott, T.C. et al., "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," J. Virol. 71:4319-4330, American Society for Microbiology/DC (1997)
↓	AS	30	Warnes, A. et al., "Expression of the measles virus nucleoprotein gene in Escherichia coli and assembly of nucleocapsid-like structures," Gene 160:173-178, Elsevier Science Publishers B.V. (1995)
↓	AT	30	Watkins, S.J. et al., "The 'adenobody' approach to viral targeting: specific and enhanced adenoviral gene delivery," Gene Ther 4:1004-1012, Macmillan Magazines, Ltd. (1997)

EXAMINER	<i>Mooley</i>	DATE CONSIDERED
----------	---------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

10-30-03

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

TECH CENTER 1300

FEB 03 2002

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	<u>31</u>	Watson E. et al., "Structure determination of the intact major sialylated oligosaccharide chains of recombinant human erythropoietin expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 4:227-237, Oxford University Press (1994)
	AS	<u>31</u>	Wild, C. et al., "Letter to the Editor: A Synthetic Peptide from HIV-1 gp41 Is a Potent Inhibitor of Virus-Mediated Cell-Cell Fusion," <i>AIDS Res. Hum. Retroviruses</i> 9:1051-1053, Mary Ann Liebert, Inc. (1993)
✓	AT	<u>31</u>	Willis, A.E. et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," <i>Gene</i> 128:79-83, Elsevier Science Publishers B.V. (1993)

EXAMINER

*Wade*

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 1700.0180002		APPLICATION NO. 09/848,616	
		APPLICANT Sebbel et al.			
		FILING DATE 05/04/2001	GROUP 1645		

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH CENTER  
1000/2000MA/1000  
10/2002

RECEIVED

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M	AR	32	Xiong, C. et al., "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," Science 243:1188-1191, American Association for the Advancement of Science (1989)
↓	AS	32	Yuan, T.T-T. et al., "Subtype-Independent Immature Secretion and Subtype-Dependent Replication Deficiency of a Highly Frequent, Naturally Occurring Mutation of Human Hepatitis B Virus Core Antigen," J. Virol. 73:10122-10128, American Society for Microbiology/DC (December 1999)
↓	AT	32	Zang, M. et al., "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using A Protein-Free Cell Culture Medium," Biotechnology (N Y) 13:389-392, Nature Publishing Company (1995)

EXAMINER

Moden

DATE CONSIDERED

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

TECH DIVISION  
 RECEIVED  
 FEB 10 2003  
 USPTO  
 MAIL ROOM  
 10:00 AM  
 2003  
 1000  
 1000

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	33	Zhou, S. and Standring, D.N., "Cys Residues of the Hepatitis B Virus Capsid Protein Are Not Essential for the Assembly of Viral Core Particles but Can Influence Their Stability," J. Virol. 66:5393-5398, American Society for Microbiology/DC (1992)
↓	AS	33	Invitrogen Manual, "Sindbis Expression System Version C," from internet web page <a href="http://www.invitrogen.com/manuals.html">http://www.invitrogen.com/manuals.html</a> , Catalog No. K750-01 (1996)
↓	AT	33	International Preliminary Examination Report for International Application No. PCT/IB99/01925.

EXAMINER	<i>Mosler</i>	DATE CONSIDERED
----------	---------------	-----------------

10-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

**RECEIVED**  
**TECH CENTER 1600**  
**MAR 09 2002**  
**2000**

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>MM</i>	AR	<u>34</u>	International Search Report for International Application No. PCT/IB99/01925 mailed June 29, 2000.
<i>J</i>	AS	<u>34</u>	International Search Report for International Application No. PCT/IB01/00741 mailed March 5, 2002.
<i>MM</i>	AT	<u>34</u>	Copy of co-pending U.S. Application No. 10/050,902, Renner et al., filed January 18, 2002.

EXAMINER

*modley*

DATE CONSIDERED

*10-30-03*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0180002	APPLICATION NO. 09/848,616
		APPLICANT Sebbel et al.	
		FILING DATE 05/04/2001	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M M	AR	<u>35</u>	Copy of co-pending U.S. Application No. 10/050,898, Renner et al., filed January 18, 2002.
	AS	<u>35</u>	
	AT	<u>35</u>	

EXAMINER

DATE CONSIDERED

*[Signature]*

16-30-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.